

WEST[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#) [Search Form](#) [Posting Counts](#) [Show S Numbers](#) [Edit S Numbers](#) [Preferences](#) [Cases](#)**Search Results -**

Terms	Documents
L3 and fer\$5 and hydrogen peroxide	10

US Patents Full-Text Database
US Pre-Grant Publication Full-Text Database
JPO Abstracts Database
EPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Database:**Search:**[Refine Search](#)[Recall Text](#)[Clear](#)**Search History****DATE:** Monday, September 30, 2002 [Printable Copy](#) [Create Case](#)**Set Name** **Query****Hit Count** **Set Name**
result set*DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ*

<u>L4</u>	L3 and fer\$5 and hydrogen peroxide	10	<u>L4</u>
<u>L3</u>	L2 and lithium	25	<u>L3</u>
<u>L2</u>	polyuronic acid and 536/\$	57	<u>L2</u>
<u>L1</u>	polyuronic acid.ti.	14	<u>L1</u>

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 10 of 10 returned.**

1. Document ID: US 20020016453 A1

L4: Entry 1 of 10

File: PGPB

Feb 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020016453
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020016453 A1

TITLE: Process for the manufacture of polyuronic acids

PUBLICATION-DATE: February 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Marritt, William	Nagano-Ken		JP	

US-CL-CURRENT: 536/123

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#)

2. Document ID: US 6444660 B1

L4: Entry 2 of 10

File: USPT

Sep 3, 2002

US-PAT-NO: 6444660
DOCUMENT-IDENTIFIER: US 6444660 B1

TITLE: Lipid soluble steroid prodrugs

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#)

3. Document ID: US 6416740 B1

L4: Entry 3 of 10

File: USPT

Jul 9, 2002

US-PAT-NO: 6416740
DOCUMENT-IDENTIFIER: US 6416740 B1

TITLE: Acoustically active drug delivery systems

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#)

4. Document ID: US 6231834 B1

L4: Entry 4 of 10

File: USPT

May 15, 2001

US-PAT-NO: 6231834

DOCUMENT-IDENTIFIER: US 6231834 B1

TITLE: Methods for ultrasound imaging involving the use of a contrast agent and multiple images and processing of same

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KMC](#) | [Draw Desc](#) | [Image](#)

5. Document ID: US 6139819 A

L4: Entry 5 of 10

File: USPT

Oct 31, 2000

US-PAT-NO: 6139819

DOCUMENT-IDENTIFIER: US 6139819 A

TITLE: Targeted contrast agents for diagnostic and therapeutic use

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KMC](#) | [Draw Desc](#) | [Image](#)

6. Document ID: US 6123923 A

L4: Entry 6 of 10

File: USPT

Sep 26, 2000

US-PAT-NO: 6123923

DOCUMENT-IDENTIFIER: US 6123923 A

TITLE: Optoacoustic contrast agents and methods for their use

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

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7. Document ID: US 6090800 A

L4: Entry 7 of 10

File: USPT

Jul 18, 2000

US-PAT-NO: 6090800

DOCUMENT-IDENTIFIER: US 6090800 A

TITLE: Lipid soluble steroid prodrugs

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KMC](#) | [Draw Desc](#) | [Image](#)

8. Document ID: US 6071494 A

L4: Entry 8 of 10

File: USPT

Jun 6, 2000

US-PAT-NO: 6071494

DOCUMENT-IDENTIFIER: US 6071494 A

TITLE: Methods for diagnostic imaging using a contrast agent and a renal vasodilator

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KMC](#) | [Draw Desc](#) | [Image](#)

9. Document ID: US 6028066 A

L4: Entry 9 of 10

File: USPT

Feb 22, 2000

US-PAT-NO: 6028066

DOCUMENT-IDENTIFIER: US 6028066 A

TITLE: Prodrugs comprising fluorinated amphiphiles

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 10. Document ID: US 5846517 A

L4: Entry 10 of 10

File: USPT

Dec 8, 1998

US-PAT-NO: 5846517

DOCUMENT-IDENTIFIER: US 5846517 A

TITLE: Methods for diagnostic imaging using a renal contrast agent and a vasodilator

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#)[Generate Collection](#)[Print](#)

Terms	Documents
L3 and fer\$5 and hydrogen peroxide	10

Display Format: [Previous Page](#) [Next Page](#)

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 10 of 14 returned.** 1. Document ID: US 20020016453 A1

L1: Entry 1 of 14

File: PGPB

Feb 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020016453
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020016453 A1

TITLE: Process for the manufacture of polyuronic acids

PUBLICATION-DATE: February 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Marritt, William	Nagano-Ken		JP	

US-CL-CURRENT: 536/123[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Draw Desc](#) | [Image](#) 2. Document ID: US 6242529 B1

L1: Entry 2 of 14

File: USPT

Jun 5, 2001

US-PAT-NO: 6242529
DOCUMENT-IDENTIFIER: US 6242529 B1

TITLE: Aqueous ink jet compositions comprising a hydrophobic polymer functionalized polyuronic acid dispersent, and method of using[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KIMC](#) | [Draw Desc](#) | [Image](#) 3. Document ID: US 4504504 A

L1: Entry 3 of 14

File: USPT

Mar 12, 1985

US-PAT-NO: 4504504
DOCUMENT-IDENTIFIER: US 4504504 A

TITLE: Texture preservation for diced fresh food products using gelled polyuronic acids[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KIMC](#) | [Draw Desc](#) | [Image](#) 4. Document ID: JP 2002047302 A

L1: Entry 4 of 14

File: JPAB

Feb 12, 2002

PUB-NO: JP02002047302A
DOCUMENT-IDENTIFIER: JP 2002047302 A
TITLE: METHOD FOR MANUFACTURING POLYURONIC ACID

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KMD](#) | [Draw Desc](#) | [Image](#)

5. Document ID: JP 56079101 A

L1: Entry 5 of 14

File: JPAB

Jun 29, 1981

PUB-NO: JP356079101A
DOCUMENT-IDENTIFIER: JP 56079101 A
TITLE: POLYURONIC ACID DERIVATIVE, MANNO-GULONOGLYCAN DERIVED FROM SEAWEED

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KMD](#) | [Draw Desc](#) | [Clip Img](#) | [Image](#)

6. Document ID: EP 1153933 A1

L1: Entry 6 of 14

File: EPAB

Nov 14, 2001

PUB-NO: EP001153933A1
DOCUMENT-IDENTIFIER: EP 1153933 A1
TITLE: Process for the manufacture of polyuronic acids

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

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7. Document ID: JP 2002047302 A EP 1153933 A1 US 20020016453 A1

L1: Entry 7 of 14

File: DWPI

Feb 12, 2002

DERWENT-ACC-NO: 2002-091628
DERWENT-WEEK: 200227
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TITLE: Manufacture of low molecular weight polyuronic acid useful as scale inhibitors and scale deposit removers, by adding hydrogen peroxide and a ferrous salt to a solution of high molecular weight polyuronic acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KMD](#) | [Draw Desc](#) | [Image](#)

8. Document ID: ES 2168862 T3 WO 9955397 A1 FR 2778081 A1 AU 9934251 A EP 1075289 A1 EP 1075289 B1 DE 69900556 E AU 743763 B JP 2002512857 W

L1: Entry 8 of 14

File: DWPI

Jun 16, 2002

DERWENT-ACC-NO: 2000-013363
DERWENT-WEEK: 200246
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TITLE: Reinforcement of sutured tissue using textile of polyuronic acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KMD](#) | [Draw Desc](#) | [Image](#)

9. Document ID: SU 459207 A

L1: Entry 9 of 14

File: DWPI

Apr 11, 1975

DERWENT-ACC-NO: 1975-66850W

DERWENT-WEEK: 197540

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TITLE: Protein concentrates prepns. - by pptn., from dil. protein soln. by polyuronic acids (salts) useful as food additives[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KINIC](#) [Draw Desc](#) [Image](#) 10. Document ID: SU 447163 A

L1: Entry 10 of 14

File: DWPI

Mar 12, 1975

DERWENT-ACC-NO: 1975-63598W

DERWENT-WEEK: 197538

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TITLE: Microencapsulation of water immiscible liquids - using gelatin and polyuronic acid or its water soluble deriv[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KINIC](#) [Draw Desc](#) [Image](#)[Generate Collection](#)[Print](#)

Terms	Documents
polyuronic acid.ti.	14

Display Format: [Previous Page](#) [Next Page](#)

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 11 through 14 of 14 returned.**

11. Document ID: BE 788844 A CA 977233 A CH 568725 A CS 7206480 A DD 102913 A DE 2246221 A DE 2246221 C FR 2154031 A GB 1391614 A IT 1048261 B JP 48056896 A JP 76009037 B NL 174801 B NL 7212711 A RO 62793 A US 3861400 A ZA 7206189 A

L1: Entry 11 of 14

File: DWPI

DERWENT-ACC-NO: 1973-12416U

DERWENT-WEEK: 197309

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TITLE: Smoking material - contg a nicotine deriv of a polyuronic acid as reinforcement[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KDDC](#) [Draw Desc](#) [Image](#)

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12. Document ID: DE 1443488 B

L1: Entry 12 of 14

File: DWPI

DERWENT-ACC-NO: 1968-23011Q

DERWENT-WEEK: 196800

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TITLE: Derivatives/degradation products of galactomannanes, polyuronic acids etc. are produced by heating powdered starting material gradual in vacuo with continuous r[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KDDC](#) [Draw Desc](#) [Image](#)

-
13. Document ID: US 3159539 A

L1: Entry 13 of 14

File: DWPI

DERWENT-ACC-NO: 1966-14819F

DERWENT-WEEK: 196800

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TITLE: Compn. comprising a silver salt of a polyuronic acid with m.w. 1000 - 5000, and a soap, cosmetic or pharmaceutical vehicle. Claims restricted to such comp[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KDDC](#) [Draw Desc](#) [Image](#)

-
14. Document ID: GB 948417 A

L1: Entry 14 of 14

File: DWPI

DERWENT-ACC-NO: 1966-10553F

DERWENT-WEEK: 196800

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TITLE: Bi polysaccharide complexes, esp. when polysaccharide is derived from a
polyuronic acid (esp. pectin), a gum, a mucilage, a starch deriv. a cellulose deriv.
or

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#)[Generate Collection](#)[Print](#)

Terms	Documents
polyuronic acid.ti.	14

Display Format:

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Polyuronic acid
213 POLYURONIC
3442022 ACID
L1 66 POLYURONIC ACID
(POLYURONIC(W)ACID)

=> s l1 and hydrogen peroxide and ferrous and lithium

711184 HYDROGEN
161893 PEROXIDE
79177 HYDROGEN PEROXIDE
(HYDROGEN(W) PEROXIDE)
53961 FERROUS
244172 LITHIUM

L2 1 L1 AND HYDROGEN PEROXIDE AND FERROUS AND LITHIUM

=> d l1 ibib abs hitstr

L1 ANSWER 1 OF 66 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2001:830738 CAPLUS
DOCUMENT NUMBER: 135:372182
TITLE: Process for the manufacture of low molecular weight polyuronic acids by oxidative depolymerization
INVENTOR(S): Marritt, William
PATENT ASSIGNEE(S): Seiko Epson Corporation, Japan
SOURCE: Eur. Pat. Appl., 17 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1153933	A1	20011114	EP 2001-111559	20010511
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002047302	A2	20020212	JP 2001-141271	20010511
US 2002016453	A1	20020207	US 2001-855128	20010514
PRIORITY APPLN. INFO.:			JP 2000-140542 A	20000512
			JP 2000-151663 A	20000523
			JP 2001-141271 A	20010511

AB Disclosed is a **Polyuronic acid** having an av. d.p. less than 20. The method of the present invention comprises the steps: (a) providing a soln. contg. 5 wt.% or more of a high mol. wt. **Polyuronic acid** predominantly as its lithium salt; (b) adding hydrogen peroxide and a ferrous salt to the soln. prep'd. in step (a) to oxidatively degrade the high mol. wt. **Polyuronic acid**; and (c) isolating a **Polyuronic acid** having an av. d.p. less than 20 obtained in step (b). Thus, polyguluronic acid and polymannuronic acid were prep'd. from alginic acid with lithium hydroxide in presence of hydrogen peroxide and ferrous sulfate.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l2 ibib abs hitstr

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2001:830738 CAPLUS
DOCUMENT NUMBER: 135:372182
TITLE: Process for the manufacture of low molecular weight polyuronic acids by oxidative depolymerization
INVENTOR(S): Marritt, William
PATENT ASSIGNEE(S): Seiko Epson Corporation, Japan
SOURCE: Eur. Pat. Appl., 17 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1153933	A1	20011114	EP 2001-111559	20010511
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002047302	A2	20020212	JP 2001-141271	20010511
US 2002016453	A1	20020207	US 2001-855128	20010514
PRIORITY APPLN. INFO.:				
JP 2000-140542 A 20000512				
JP 2000-151663 A 20000523				
JP 2001-141271 A 20010511				

AB Disclosed is a **polyuronic acid** having an av. d.p. less than 20. The method of the present invention comprises the steps: (a) providing a soln. contg. 5 wt.% or more of a high mol. wt. **polyuronic acid** predominantly as its **lithium salt**; (b) adding **hydrogen peroxide** and a **ferrous salt** to the soln. prep'd. in step (a) to oxidatively degrade the high mol. wt. **polyuronic acid**; and (c) isolating a **polyuronic acid** having an av. d.p. less than 20 obtained in step (b). Thus, polyguluronic acid and polymannuronic acid were prep'd. from alginic acid with **lithium hydroxide** in presence of **hydrogen peroxide** and **ferrous sulfate**.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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